

**MRDL Form 1**

**Chlorine and Chloramines, Maximum Residual Disinfectant Level (MRDL) Monthly Worksheet**

**PWSID #:** \_\_\_\_\_ **SYSTEM NAME:** \_\_\_\_\_ **DATE:** \_\_\_\_\_  
**Month:** \_\_\_\_\_ **Year: 20** \_\_ \_\_

Column A	Column B	Column C	Column D	Column E	Column F	Column G
Sample Event #	Location ID #	Level Recorded ROUTINE TC Sample-- Chlorine/Chloramine (mg/L)	Level Recorded REPEAT TC Sample-- Chlorine/Chloramine (mg/L)	Level Recorded INCREASED ROUTINE TC Sample-- Chlorine/ Chloramine (mg/L)	Level Recorded OTHER Compliance Sample-- Chlorine/ Chloramine (mg/L)	Repeat any entry in Columns C, D, E, or F in this column (mg/L) (there should be only one sample per row)
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						
11						
12						
13						
14						
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27						
28						
29						
30						

**Add all the numbers in column G and enter the sum here**

→ →

Calculate the average of all residual levels for the month by dividing the sum of column G by the total number of samples taken during the month. Enter this average into Column A of MRDL Form 2 for the appropriate month.

Instructions on Reverse

## INSTRUCTIONS FOR COMPLETING

### *Chlorine and Chloramines, Maximum Residual Disinfectant Level (MRDL) Monthly Worksheet*

1. PWSID #: Enter the Public Water System (PWS) ID number assigned by USEPA.
2. System Name: Enter system name provided to USEPA when PWSID assigned.
3. Date: Enter the date that the final report is prepared and signed.
4. Month: Enter the reporting month.
5. Year: Enter the last 2 digits of the reporting year.

## FORM SPECIFICS

This worksheet is provided to assist public water systems in calculating the average of all chlorine or chloramine residual levels recorded during the month. Disinfectant residuals must be determined each time a routine, repeat, or increased routine total coliform sample is collected. Any additional disinfectant residual monitoring results obtained by the system must also be recorded and used to calculate compliance. Each row is to contain only one residual level which is to be associated with the appropriate heading: routine, repeat, increased routine or other compliance disinfectant residual level sample(s). Systems required by regulations to collect more than 10 samples per month may modify the form to disregard the column headings or use a spreadsheet to calculate monthly averages as long as all disinfectant residuals taken each month are recorded and used in the computation and reporting of the monthly average disinfectant level.

6. Column A: is used to indicate the number of sample events taken since the beginning of the reporting month. For example: if a PWS samples four times during the month for chlorine residual in the distribution system (in accordance with its written sampling plan) it would enter the results in rows 1-4. . The number in Column A of the last row with an entry, is the number to be used in the denominator to calculate the average concentration from all sample locations. The numbers in this column do not correlate to the days of the month.
7. Column B: enter the location identifier, which should depict the location where each residual measurement was obtained.
8. Column C: enter the Chlorine/Chloramine residual in mg/L, measured at the time each “routine” Total Coliform (TC) sample was collected.
9. Column D: enter the Chlorine/Chloramine residual measured in mg/L, at the time each “repeat” Total Coliform (TC) sample was collected.
10. Column E: enter the Chlorine/Chloramine residual measured in mg/L, at the time each “increased routine” Total Coliform (TC) sample was collected.
11. Column F: enter the Chlorine/Chloramine residual measured in mg/L, at the time “other” residual determinations samples were made in the distribution system, not associated with minimum required TC monitoring, but included in the public water system monitoring plan.
12. Column G: enter the value of the disinfectant residual entered in any one of Columns C, D, E, or F.
13. Calculate the monthly average for chlorine/chloramine MRDL. This is the Sum of the values in Column G divided by the total number of entries in Column A.
14. Transfer monthly average as calculated above to Column A of MRDL Form 2 for the appropriate month.